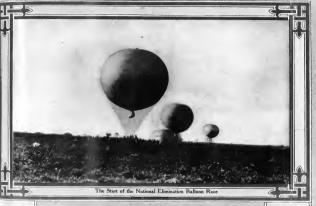
AVATION

The Oldest American Aeronautical Magazine

MAY 18, 1924

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VOLUME

SPECIAL FEATURES

NUMBER 20

THE WACO MODEL 9
HOUSING THE AIR MAIL

STABILITY AND CONTROLLABILITY OF AIRPLANES

GARDNER PUBLISHING CO., INC.
HIGHLAND, N. Y.

225 FOURTH AVENUE, NEW YORK
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The First Wright Airplana William assessed experts become parlesses and propoand a . I the testimony of partises countries expects may be of the 'continuous in in neatherstable that the permatent shed of the Wrights on the honors of discovering a method class corner to called The Langley whole a balloon mother

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Landing Fields and Community Development This improvement is not alamater to format driver fable

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However there are bound to be westleshife protes which will peer over communities without landing fields. In such come the compressor will very likely be Succed to purchase or will locate his field gway from the town whose real setate to choses. When an Air Med posts has been catablished for a

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World Speed Records NO long to the harding most recomment to the source

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There is little most to recount hew the original Langley

Bulletin No. 8 fully describing the Wright Job engine, to sender with associated and self by model were consen-

THE WRIGHT J-4 AIR-COOLED

AERONAUTICAL ENGINE

cial engineers both American

and foreign, watching this ad-

vance realize that they can now

obtain in the Wright I-4 all the

many advantages of an air-

haustive and comparative study

of various engines (both water

and air-cooled) a company that

is undertaking the most impor-

tant commercial project in America has finally placed their

orders for Wright I-4 ensines.

It is significant that after ev-

cooled power plant.

SERONALITIC engineers for

CA years past would have used

air cooled acromutical engine

had they been as fully developed

Wright Aeronautical Cornora

tion has, for the past two years

given major consideration to

the development of the "Whirl-

wind" series air-cooled engine

-culminating in the present

Governmental and commer-

In recognition of this fact the

WEIGHT LATE ARE HIST AS DEPENDABLE AS THE PAMOUS WRIGHT BA RIGHT

When Wonling to Afferences, Please Meeting AVLATION

react), there high lift wing needed which person of day



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After of Mileters . .

At the last final here of the Medic 9 From showing the technic bandon and the finaling gave con-location. Below: A rear way, the legant of the control authors can only be

Thermal Expansion of Aluminum and Various Important Aluminum Alloys ot importest algoritum afters. The operations observed composition, best treatment, etc. one varieded. Must of the

A description of the appearant used in the prospek and L - L 11 + (22.5% + 8,00996*) 36*) The relations between the chemoral compositions and coeffthe relation services are exempts; compositions and composition of the 12 not cond covered and alternative effects of the TTA was need outh copper) and attenues of son alleys (4 to 12.5 per cont offsees), are shown in figures. The appealons expansion of

formation or especial temperature. A triangular cougram is shown which indicates the effect of change of composition on the coefficients of expansion of abundant-of-someways ar coefficients of expansion of the various strants of securior Scientific Passers of the Burray of Standards, No. 405

\$7,500,177.42 Contracts with the Industry For the first time there has become available for publicawere anniously for \$7,500,377.60 to process of namedature was

repulse.
The full-wing table above how the contracts was along

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100 strended DHCs, with sted fundam and landow 45 count place. PW9 and mares (14 for Name) . . . 38 remodeled DESC's (for Near)

neshalasse please, ATL and opares () ready for

3 E 1404 regimes Minedanosas, spare parts (Espain) Poseble shillowed capitos 6 or transperis, Cl.

Buff-Behand Co [Sar],
19 tenning planes, AVL, and spares (1 delevend)

Nodel I-A, 1500 corner 5 Model 1-A, 2,000 cagnes

500 remodeled Laborty contract (40 per sent complete) ... Minurilaneous capper spare ports

Stability and Controllability of Airplanes Part VII. Actual Airplanes and the Tail Spin

we have shown how the stability in your and on will can

All the control in cell in the case of each an airedness to returned in the D/Eng debies of the sileness, and their drag with it not reported because the way has very little to do

or delice stud nation to hable to do to then once more burns

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As the later owner of sporal instability have in the last of

screening in 1915, the evident princey is to mirrors it by surveyer the different or by the addition of non-skyl places. subron controls, and how the relative perpertue. tedials, -- ordets. Were the will emberous to these been those The shillify to keep the direction of facts with backs off will minute. On they are no proposes of an arryante to con-pain at in flagist of an anescended arrylane in number of an fart of madels. We do not need to death here ones. months. We will convenients our attention new on forms makers on of lateral stability often met to existing air der you. This shows that the applicant is puriously stable to yes, while about indifferent in reil. The arplane steers shoul estartly by the scleron and very little reidler is used. the corrient stable to yow and neutral, or nearly neutral

until 5 -hows to Fig. 15. Such an arplane of left assess-tated as rules weather may be abserved to start the form adment areafred on pass. This resolutes to runch more lakely to keep its description of fluids with hands off than the previous and to to both it, erreducilly if helt alone for a sufficient time The turns in this case can be started and encouplished readily by the middle about. The action of the reider cases a year on resource to which the sirelites rights to red will hands. During the turn the treatment to overtaint due to the higher velocity of the ceter wing will be present, but will be surveyed automatically by dilvis side almoster. And will be surveyed automatically by dilvis talts almoster. As the radder can be recoverfully used for control of the

> undered in their drugs. Ordinary siterios are liable to seen allerens. Address with wash-out or differential ordion on the act with the lift effect of alterest flack allerest by per-viding proper emoral of sevent muchanessely with re

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The arplane can be steered by refler adenors or realder.

In case the lack of managementality of each an surplane proves to be elapetimeable, it is not safe to refere the sin-

A consecrable amount of study was given to the question part of the weight of the stripless is supported by it, while and a much larger on the same were than on the rater man

eggraphy queblies of the surpless. Indeed, the 505 and with its absorpted debedral of 5% deg on he may really The damping and stability in you are probably the nee effective means of preventing a tall upin from taking place

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speed, massed, very lightly intend Parisan avrition of 1914-15 open so slovely and goodly that abserves from an ground it was difficult to distinguish a fail spin from a topic

Military Volum

The fact room no a manower to metal in fight ... and of

The tall spin as a reasonrer is meral in Ego. ... and at army or eavy appliance of lighting clear must be realty at

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atability is of considerable reportance in the constant

Appelators postable beauted-mally, i.e. better the center of

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broom coon readily. On the other hand even the

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nds slipping. This is quite true with propert to the vary located near the center of granky, but in not true in many to tail variance. The redition of turn in no world 17% found in two sament cable surdames and in from hook Considering the high value of standay velocity in one the damager to Your to your pirmer and offerbrain comment the campany to you is very account and interest of the sector of the first short sides that seem simpleses will not not with temp vertical flat, and will do no readily mass removal of these list Tax midder a trian do controlling value effer ciall, as we therefore is of atmost supportune in the task or a Old coverees of the radder in the direction opposits to Ball if most that larger year over on left while maker or cally set sion the sal span, or to reverse at director. Yes possible rady enable the point is ity the sarplane it is supported in modern any enable the point is ity the sarplane it is support modern considerably above stating, countries in

Housing the Air Mail New Hangars Provide Modern Facilities for Air Transport As on two station holds so part of un operating air team-Field, the two hassers have down at both only which one

and the in an entirely delicered, (and more delicate) motion off energy ander almost any realestable and excry definite and exacting operation. These exist try of these recess, the operation of dente, the and heights, water and fast capply and storage, insight proper, of maker seen and stere room and consents. There are also the sound person, trans-Mail Service has probably the only heighly on these problems to the Under States. John E.

Oh, our ow and contractors. They had the first unit of in my I -ees Yemanad at Hadley Field, N J, may New Process for November. It has proven to be an amount find

Ranid Construction the March 100 file nester was placed for one complete wash for the full width. At Bellefoule, which is more a forking station, there are deeps only it one red of the houses. The caker around a court with shoots opening only on the court litted reiling does are temp used throughout one naw nump, ings. They are reade in three accision and the senter guide the hangur room has a lean-to 20 ft, wide running the full length. This space is divided take store proces, garage space, peloty prome, office, etc. All the flavor exercis is the office. made of brick. All the other head-level have walk of it on hollow concerts blacks. Rividire The outside walls of each building are penetically filled with tion the 60 ft benefits woode traces which span the

The strength of the hangers is of extreme importance as The new hargars are only partly fireproof, as the real

to The are now building the steps As man manned to the conducts of three

The new honger at distilutests on the assessment day of construction

Name to reducible wheat. A concrete court, 25 th water b ill it og connects the three. The Smillery Countryby St. 1. has the contract for an additional langer at the State, 7 told Terranal at New York;

hazar rows. The principal problem as equivalent with powered in to belongs a means of tabulth tension for purchase minutes in the beautiful bootens in commences minutes and provided in the provided provided by the provided provided to the provided ture in the benger after the doors have been opened in waster this is the believe many nor more more over dynamics working in my their very little time need be lest by muchanics working in the more. This has been gone into very thoroughly and in These is things consist of a harger proper, 160 ft. long of ft. the best very tipe Line seem of ft. the vide with a clear height of 16 ft. At Hoday or engagement problem in mail

The National Elimination Balloon Race The 1925 Race Won by the Winner of the 1924 Race

The Locality Tracks

related by Land William J. Flood took off at 5:56 - -

Cut. Il E Berryoll, research second mand over in 12 the 5st Joseph of 6 42 p to His sale was Barry Presion.
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The following inheletion gives the official positions and

The Late Sold Transfer and the pight to proposent the United Propose Piles Landow Place State Courts State-Ala. Policy Billion Bedgy to Ark deer Mrss. Moer r 541

> 5 Herbert Von Theden 3 mi. NE In view of the had weather conditions, H. E. Hrecrail

Naval Architect Belleves in Airships The donager of the Levethen sed the Mass-on the to



Way 15, 1995 A Proposed American Air Line

We see indebted to Haratin Starter of The Arieties Syna count our novement out engineer. The Arr Mail flowers were to placed was from New York to Charage, with

rottly the exection of routile receive was taken dem office to obtain an expression of opinion from house the extension on the amount or enems were as and signal between the various often. Papering as a very occurrence been it is estimated that a severas of \$0,000 of for our 1 in derivated for the six line on changes on low that The cost source of personal was Adgresses or very long "meter in trees," which would be delivered by place instead of Agent of 1900 per day, parel of 2000 per may. The third nonzer of sevenee was from such goods as nown

pepers, --crebents samples, flinx, jewelry, machinery parts, 7.000.00

A most expected negativity was made of the capital costs prset of make, sages from commont, sto. We resent than There seems to be given the given the details.

Unit is forget extraher of plause sould be pet into daily spendies, the plan provides for the resting of landing fields.

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Total capital registred 82,732,508-00 The exempliants are given in graph curater detail than the shows, and to see place we have been formed to group errism of them together. An explanatory note as made for each deep, also man have the formers were derived. mi, for a year of 250 fiving days. There would be 20 places lead of 1,000 to the lines, is clearly shown in the tables. No ellimates between are made for lower costs with more intensive officiation. The

are of you carabar alongs and of personnent furdings do for a long enough openerative time to affind comprehensive and hased on an intelligent proceedation of the figures and all it. He may be a set of the figures and all it.

A Modern Interior



The interior of the new Justices GES three-neglest transport

The Wright-Langley Controversy Both Sides Presented by Orville Wright and Dr. Walcott

Patent Decision

On the 13th of James, 1984, the United States Cornel such as if had been building. The company then coulded to market such in artempotate of mathew stat on classes

to lored it other saler in our populate power or with a mare reveal course and provider."

According many below both rules of the deposit over the rate the applican as the trade which Dr. Walnut was behe women had a different number, different no of rate the wings.) The wings also were of different mechanical and owner. The transfer used by Laurier was modeled at output range of the prophs of the services as 1903 h

> The Pennick tell, front, on the Lengter machine or mail The Evel vertical keet used in 1803 was rulerd counted The finel vertices seen men in read was been to the The The rudder designed by Langley in 1969 for the core was

"Vergood Langley fiving nucleus, 2003, the lest man-currying straints in the biotory of the world capable of nu-tered from their, I revenied, built and benind over the Poten-Breve by Sancard Purpost Langley in 1902 Surrentally flows at Haumendarych, N. Y., June 2, 1904 and some of time parts are of different medicated control

Statement on Card

sekanger inade to the Lampiny machine were to be only in sections if could easily be invived not 'unpublic or sectains'

Mary 15, 5908 Vo. one could persibly regret more than I do that our transportation charges on the markets to Hammondonovic

Continue was point \$5,000 for medium the tents.

"May 23, 1934. I went to Hampsonimous to see tax tests. the market confully and found of with the colored stories eagus. At the test on May 25, 1914. I went out us a boot on Lake Formulae manhors without the county or other Redomers Woman with the frame and engine, in their materials sandtion, with the frame and engine, in the corporate abop. the first tests in 1900 the Way Department Invest

or problem of mechanical flight. proving, discouraged and without feeds, and he books

Keeks and sew the Langley surplane to put described rose the coupies or prior's next, as eriginally provided for by Eu-After the completion of all tests the Laurley serolane was Millional Millionan where of his wave been an reliabilities.

Mr. Wright objects to the label, which render "Companial Lauretee Street machine, 1961. The first resourcement across

Hausenskeport, N. Y., June 2, 1914 Dissenseen. 55 feet

Accepting the Loughy "Acceptant" or Hammondayon in 1994

In Alex agreent, I then tailed with De Alexander long to feet with, numbering was unclase, 1,000 names

Dr. Walcott quoted a letter from the Wright heathern dated fights were made at Krity Hawk. Most of the parks are

elfd in existence." In the Lenziev label, Dr. Walnott odded, the word "onerail" is used "to the same scene that it would be applied in the Krity Hank Wright machine of 1900, when restored as described by the Wright betchers' intere".



UNITED STATES AIR FORCES

Prot Levi. St. Clair Street, A.S., Washington to Lander

Store Set. Address S. Jesse, A.S., Praces Publ. Canal.

Spec. Or. 274, amended to assign Capt. Willess E 1 cap. 105 A.S., to Lampey Find metric C Miletin runn. See. Land Ira Mileto James, A.S. K. Miletaghou, to over duty, McCook Field, revealing to masters when James Copt. John O Whitmeles, A.S., A. S. Tockmad St., p. Communiting CG, Lampey Field. First Licet, Barney N. Oder, A.S., Kelly Freid, to Fr. 1012, First Lord, Herry B. Mills, A.S., Fairfeld, to the ma-cino, subject Sear, 5 for Philosophy Delands. First Level Mile McCane, A S., to Furfield, apon couple Naval Aviation Uniform

The savitions will be of heavy material, the same a that now used for the Marine Copps estimate men. If we'll be of

Officer Roll time corporate norms, U.S.A., English Petry Officer Tanker and Surgeons Boardy, U.S.A., English Charl Petry Officers Miller and January Branch Charles The Lon Angeles was righted at Mayagues, Parto New 96 of the non-statement was register of Manageme, Puris it is a different was succeed to the mant of the teader rivisha at 7 45 to in.

Sir lolk Mayagues at 18:27 a. m., May 6, for a flight over Box of arrives as \$150 p. m., sixeded over the hey and was not lagren to the most of the tender Public. The venther

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Los Amprico loct manyagement at 1 30 p as , many o, nor trap belong 37 he, 60 mm , absent 5 kg, languy those in found necessary to release 50,000 rs. Ot of helyan

ste carried 200 fb. of coal, the first air small ever trace-

Arche Expedition Notes Note of members of the Naval memoraal who will take

To considing of equipment and the formulation of plans

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Yares fittee daring the twenty-four hours.

parts of the swapers by the shadow theory by the use of

He to supply an artificial horizon. It may therefore be used to take suches of the sea from alrevell as now addition and in prin. In this area the navigation of the expedition will have the rived superiorse of making their eshabelines with the

more readle presting worth sented of north. In addition never the heat which downthen a marke about the charges

to II R.E. Monoda

cons one anything many their notificia bases for encor-

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of sustaining the faces for thirty days every reen mear case. Home of the fixed staffs provided will be to a form such that two spectral will consisted a ment. Higher and garangeton will also be carried so that the party may be supplied with gene. A scall test will be taken in one of the places to

The best was given a lest by Laudenant Commander Brad

It is expected that the Leseung amphibese planes will be defined at the arciation assembly point of the expedition within the first ten days of Max. From the time of these

Kern's configurant will be exceeded to remotion finds which

will elegate the condition under which they will operate

Community Boyd storing for shore on the collegable air soft to be

Lates, Foreign, Mayor (et. U.S.S. Mesty to command New.

Air Sta., Cope May Enr. John Conce det. Nav. Aur Ste., Personnia, to II it is Pay Cik. John J. MacDonald dot. Nev. Asr Sta., Personals to U.S.S. Pink.
Le Levier F Hing, det. Nav. Air Ste., America, to mean Rus. Mathew E. Q. Wener det, Nav. Air Sta., Personnia Ch. Pay Clerk Cool H Jornigan det. Ecc. Star. Son.

\$4 (get Bernard J. Blockell dat. Nev. Air Stn., Pennacela,

Lt. (1g) George W. Monde det, New Acr Sta., Personnelle Sc. (18) Peter M. Monorwoo det Nev. Arr Stn., Pennacola

24. (iv) Joseph C. Conner det II S.S. West Verseen, in



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